

1. Given a string. the task is to check if the string is symmetrical and palindrome or not. A string is said to be symmetrical if both the halves of the string are the same and a string is said to be a palindrome string if one half of the string is the reverse of the other half or if a string appears same when read forward or backward.

**Input:** khokho

Output:

The entered string is symmetrical

The entered string is not palindrome

**Input:** amaama

Output:

The entered string is symmetrical

The entered string is palindrome

2. Check if a Substring is Present in a Given String

Help: built-in library function find() can be used.

3. Transform input into another style.

Input : Lecture\_Notes\_2020

Output : LectureNotes2020

Input : left\_index

Output : leftIndex

Help: replace() function can be used

4. The task is to print all words with even length in the given string.

Input: I love python lecture very much.

Output:   love  
         python  
         very  
         much

5. Count the number of matching characters in two strings

**Input :** str1 = 'abcdef'

         str2 = 'defghia'

Output : 4

(i.e. matching characters :- a, d, e, f)

6. A string is given and you have to find all the words (substrings separated by a space) which are greater than given length k.

Input : str = "string is fun in python"

         k = 3

Output : string python

7. Given a string str. The task is to check whether it is a binary string or not.

Examples:

Input: str = "01010101010"

Output: Yes

Input: str = "BLM1001"

Output: No

8. Given a string of size  $n$ , write functions to perform following operations on string.
1. Left (Or anticlockwise) rotate the given string by  $d$  elements (where  $d \leq n$ ).
  2. Right (Or clockwise) rotate the given string by  $d$  elements (where  $d \leq n$ ).

Input :  $s = \text{"abcdefg"}$

$d = 2$

Output : Left Rotation :  $\text{"cdefgab"}$

Right Rotation :  $\text{"fgabcde"}$

9. Magical numbers are

135

$$1^1 + 3^2 + 5^3 = 135$$

75

$$7^1 + 5^2 = 32$$

Check any number is magical or not.